



ABOUT SECURITY POLICY BETWEEN HOME NETWORK MULTI DEVICES

By Noriya Sakamoto of TOSHIBA

ABOUT SECURITY POLICY TO COMMUNICATE MANY DEVICES

- Recently internet user accesses many devices simultaneously. For example, user can enjoy many kind of screen services to use TV set, tablet and smart phone.
- Hybridcast service is already launched on Sep. 2013 in Japan. User can enjoy many kind of 2nd screen services to use tablet and smart phone.
- Service providers can launch to use only one HTML5 application for tablet and Smartphone, because TV set maker prepared companion application to realize same API for Android OS and iOS devices.

2nd Screen connect method

Step 1

URL: http://www.broadcaster_a.or.jp/HC/index.html

Server

(ex.) http://www.broadcaster_a.or.jp/HC/index.html?lib-url=http://www.maker_a.co.jp/Maker_a.js

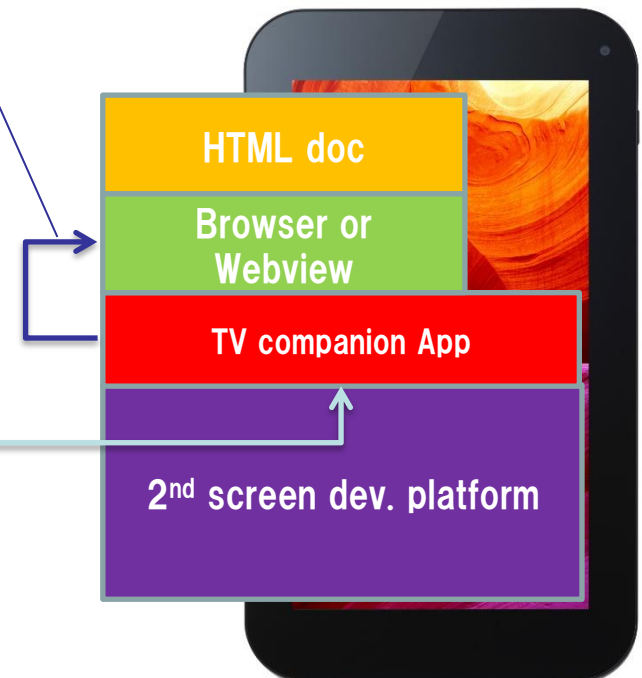
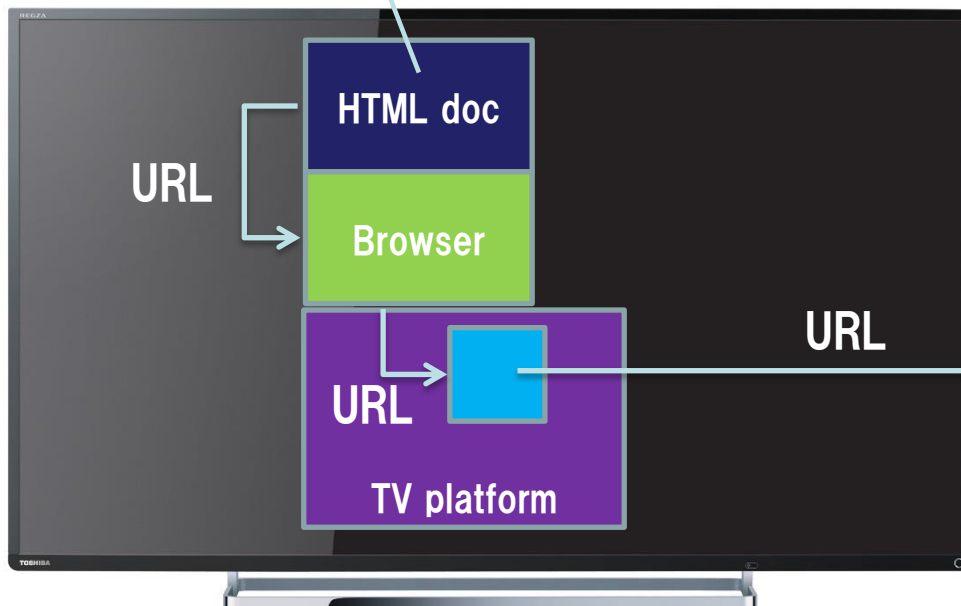
HTML5
APP
For TV

Need DL and load of TV Maker's
JavaScript library for 2nd screen

HTML5
APP for
2nd Screen

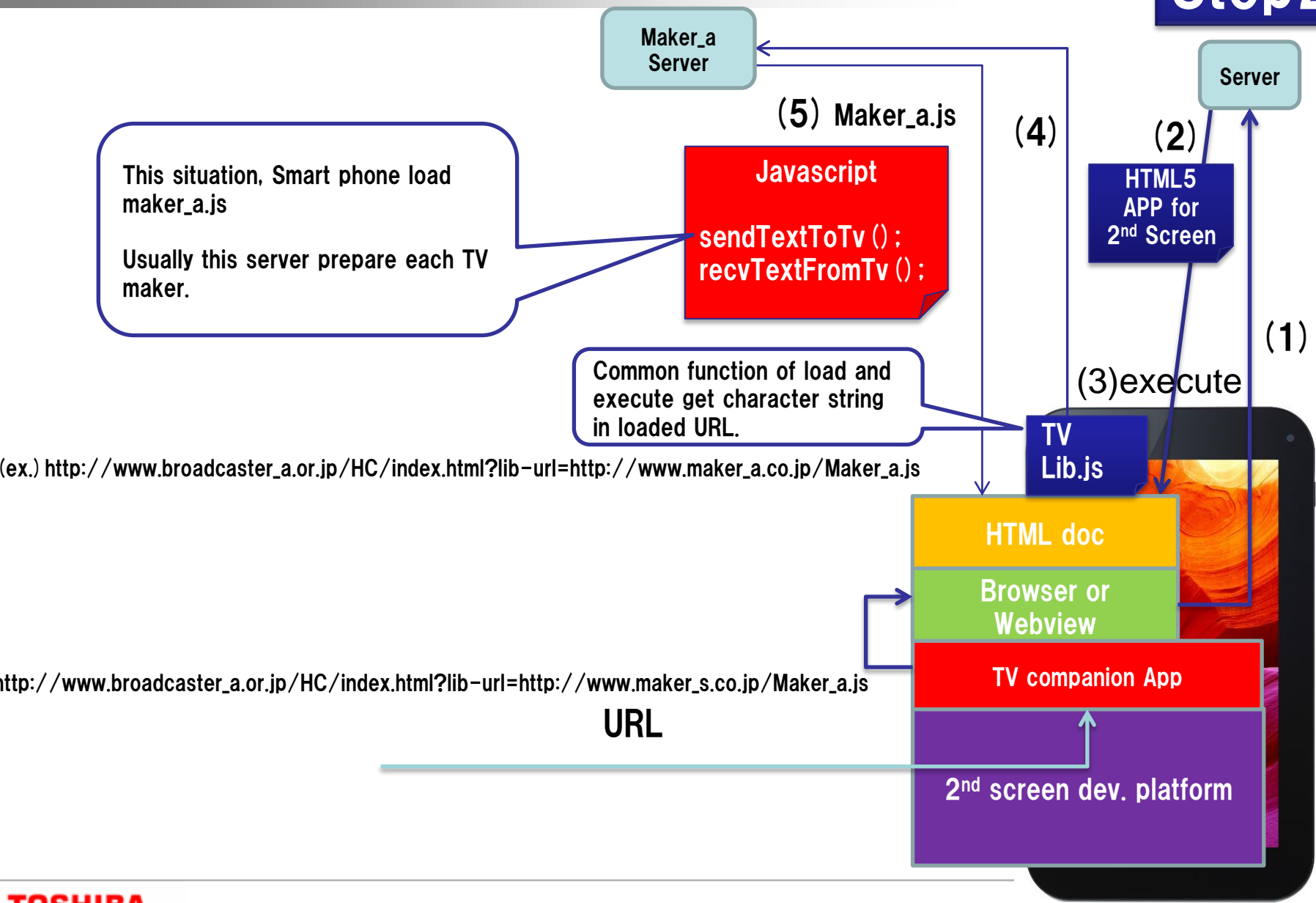
Load (URL + "lib-url=http://www.maker_a.co.jp/Maker_a.js")

launchHTMLdocumentOnExternal (URL)

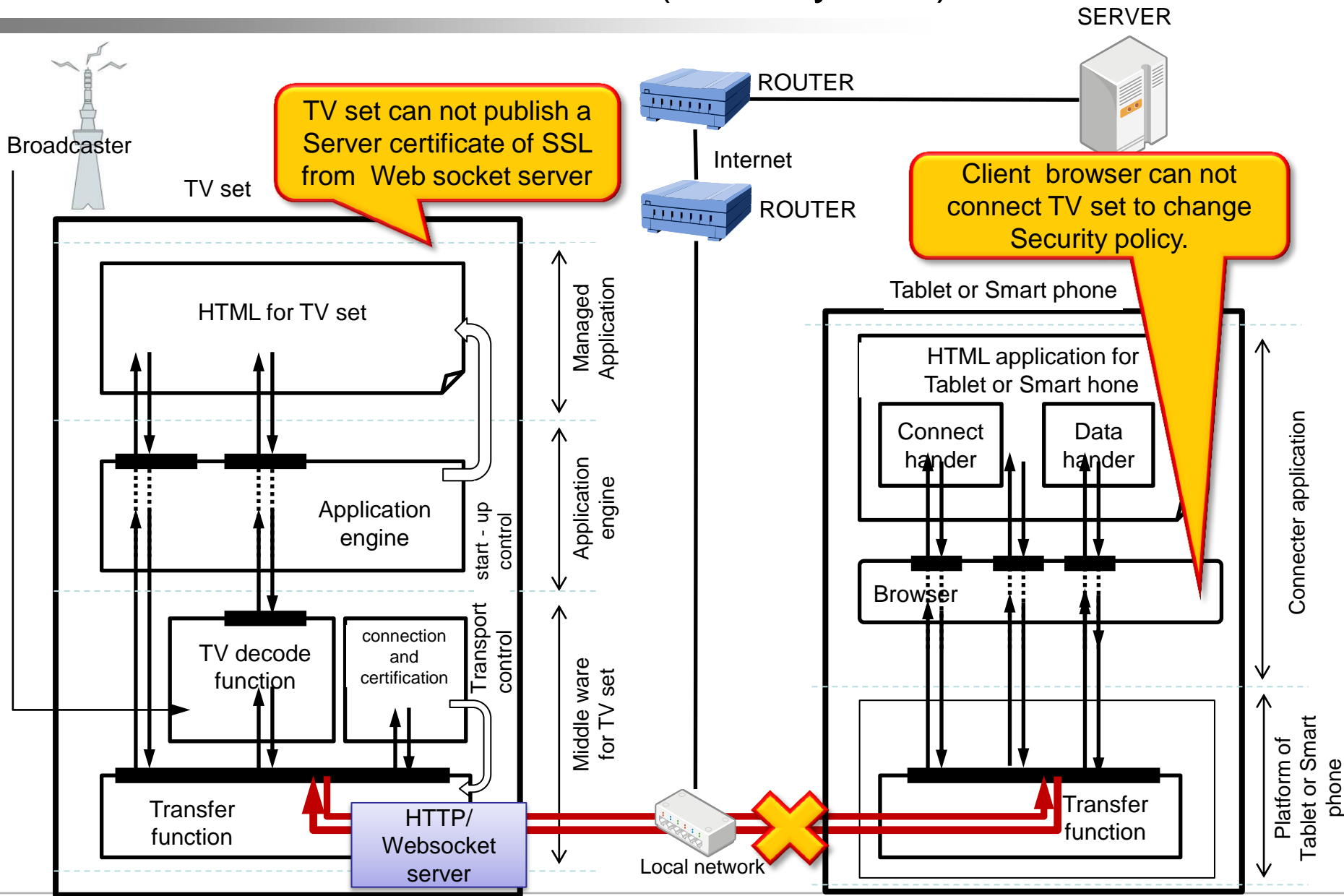


URL: http://www.broadcaster_a.or.jp/HC/index.html

Step2



2nd Screen connect method (Total System)



About Security Policy Problem

- Japanese broadcasters already started many kind of Hybridcast services.
- Especially these services are connected TV set and Tablet or smart phone.
- This service use to Web socket technology by many companies' companion application for exchange information between TV set and Table or Smart phone.
- Usually TV set have Web socket server. **But TV set can not publish a server certificate.**
- **HbbTV2.0 service or other multi devices exchange information using local network will occur same situation.**
- So if we plan to use Web socket technology for home network, Web socket technology' s security policy is very important.
- **We should discuss about security policy using web technology usefully.**